

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. **(Currently amended)** A stack plate-type heat exchanger  $[(1)]$ , comprising a large number of plates ~~(23, 24)~~ which are in the form of troughs and are stacked one inside the other, of a first and of a second type, which, between them, form flow channels ~~(25, 26)~~ with a first height  $h$  for a first medium and with a second height  $H$  for a second medium, with the plates ~~(23, 24)~~ having rims which are raised on the circumference, are soldered to one another and have different heights for the first and for the second plate type, ~~characterized in that~~ wherein the first plate type  $[(23)]$  has a rim  $[(23a)]$  of height  $h_1$  with a flank angle  $\alpha$ , and the second plate type  $[(24)]$  has a higher rim which is composed of at least three sections ~~(24a, 24b, 24e)~~ of height  $H_1$ ,  $H_2$  and  $H_3$ , with the first rim section  $[(24a)]$  whose height is  $H_1$  and the third rim section  $[(24c)]$  whose height is  $H_3$  each having a flank angle  $\alpha$ , while the second rim section  $[(24b)]$  whose height is  $H_2$  runs at right angles to the plate base  $[(24e)]$ .
2. **(Currently amended)** The plate-type heat exchanger as claimed in claim 1, ~~characterized in that~~ wherein the plates of the first and of the second type ~~(23, 24)~~ are stacked alternately, so that adjacent flow channels ~~(25, 26)~~ have different channel heights  $h$ ,  $H$ .
3. **(Currently amended)** The plate-type heat exchanger as claimed in claim 1, ~~characterized in that~~ wherein the ratio of the channel height  $H$  to the channel height  $h$  is in the range from 1.5 to 10.
4. **(Currently Amended)** The plate-type heat exchanger as claimed in claim 1, ~~characterized in that~~ wherein a second section  $[(23b)]$  with an insertion flank, a flank angle  $\beta$  and a height  $h_2$  is adjacent to the first rim section  $[(23a)]$  of the first plate type  $[(23)]$ , where  $\beta > \alpha$ .

5. **(Currently Amended)** The plate-type heat exchanger as claimed in claim 1, ~~characterized in that~~ wherein a fourth section ~~[(24d)]~~ with an insertion flank, a flank angle  $\beta$  and a height H4 is adjacent to the third rim section ~~[(24c)]~~ of the second plate type ~~[(24)]~~.

6. **(Currently Amended)** The plate-type heat exchanger as claimed in claim 1, ~~characterized in that~~ wherein means for production of vortices ~~(6, 7)~~ are arranged between the plates ~~(2, 2a; 3, 3a)~~ and in the area of the flow channels ~~(4, 5)~~.